



**Abstract of the Disclosure**

A material is provided for making aperture grilles for use in a color picture tube which has excellent yield strength, high temperature creep strength, and superior magnetic characteristics as compared to conventional materials. The material is made by cold-rolling a low carbon sheet containing 9 to 30 weight % of Ni or 9 to 30 weight % of Ni and 0.1 to 5 weight % of Co, and annealing the cold-rolled steel sheet at a temperature of 400-500°C.